

What is claimed is:

1 An ink fountain apparatus for a rotary
2 printing press, comprising:
3 a rotatably supported ink fountain roller;
4 an ink fountain comprised of a bottom plate
5 with one end supported close to said ink fountain roller
6 and a pair of ink dams standing upright from said bottom
7 plate to correspond to two ends of said ink fountain
8 roller and arranged to oppose in an axial direction of
9 said ink fountain roller;
10 at least one intermediate ink dam standing
11 upright between said ink dams from said bottom plate,
12 said intermediate ink dam including a first member in
13 contact opposite to an outer surface of said ink
14 fountain roller and said bottom plate, a second member
15 in contact opposite to said first member, and a third
16 member in contact opposite to said second member;
17 press means for pressing said first member
18 through said third and second members toward the outer
19 surface of said ink fountain roller and toward said
20 bottom plate; and
21 an adjustment tool for adjusting a tight
22 contact state of said first member with respect to at
23 least one of the outer surface of said ink fountain
24 roller and said bottom plate.

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2. An apparatus according to claim 1, wherein
2 said first member is made of a wear-resistant elastic
3 material.

3. An apparatus according to claim 1, wherein
2 said first member is a plate-like member
3 arranged in a direction perpendicular to the axial
4 direction of said ink fountain roller and with one end
5 faces that press the outer surface of said ink fountain
6 roller and said bottom plate,
7 said third member is a plate-like member
8 arranged in a direction perpendicular to the axial
9 direction of said ink fountain roller and with one end
10 face that presses said second member by press operation
11 of said press means, and
12 said second member is a thin plate-like member
13 arranged between the other end face of said first member
14 and one end face of said third member.

4. An apparatus according to claim 3, wherein the
2 thin plate-like member serving as said second member is
3 made of a thin steel plate with spring properties.

5. An apparatus according to claim 1, wherein
2 said adjustment tool adjusts said first member
3 substantially in a direction toward a position where the
4 outer surface of said ink fountain roller and said

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5 bottom plate oppose each other.

6. An apparatus according to claim 1, further
2 comprising
3 an ink fountain key supported by a lower
4 surface of the bottom plate and with a distal end
5 projecting toward said ink fountain roller closer than a
6 distal end of said bottom plate, and
7 a projection projecting from a press surface
8 of said first member and in contact with an upper face
9 of the projecting distal end of said fountain key.

7. An apparatus according to claim 1, wherein
2 said third member has an engaging surface
3 formed of a slant surface, and
4 said press means comprises an operation rod
5 biased in a direction to become close to said ink
6 fountain roller and with a distal end engageable with
7 the engaging surface.

8. An apparatus according to claim 1, wherein
2 said press means comprises
3 a holder with a first through hole and adapted
4 to support said intermediate ink dam to be movable in a
5 direction to become close to and away from said ink
6 fountain roller,
7 a rod-like press member supported in the first

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8 through hole to be movable in a moving direction of said
9 intermediate ink dam and with a distal end projecting
10 from one end of the first through hole to abut against
11 said third member, said press member having a spring
12 accepting portion,

13 a screw with a second through hole in which
14 said press member extends and threadably engageable with
15 the other end of the first through hole, and

16 a spring mounted between the spring accepting
17 portion and said screw and adapted to bias the distal
18 end of said press member to press said third member,
19 said spring having a biasing force adjusted by
20 pivot motion of said screw.

9. An ink fountain apparatus for a rotary
2 printing press, comprising a rotatably supported ink
3 fountain roller, said ink fountain apparatus comprised
4 of a bottom plate arranged at a position close to said
5 ink fountain roller and a pair of ink dams arranged
6 substantially perpendicular to said bottom plate and
7 opposing each other in a widthwise direction of said
8 bottom plate, and an intermediate ink dam arranged
9 between said pair of ink dams, said apparatus comprising
10 a press member which is supported movably,
11 which moves in one direction to press said intermediate
12 ink dam toward an outer surface of said ink fountain
13 roller and toward said bottom plate, and which moves in

14 the other direction to disengage from said intermediate
15 ink dam, thereby allowing removal of said intermediate
16 ink dam.

10. An apparatus according to claim 9, further
2 comprising
3 a support formed integrally with said
4 intermediate ink dam and having an engaging surface,
5 a holder for supporting said support to be
6 movable in a direction to become close to and away from
7 said ink fountain roller, and
8 an operating portion formed integrally with
9 said press member and adapted to release a distal end of
10 said press member from the engaging surface against a
11 biasing force.

11. An apparatus according to claim 10, further
2 comprising
3 a support bar for supporting said holder to be
4 movable in an axial direction of said ink fountain
5 roller, and
6 a fixing mechanism for fixing/releasing said
7 holder to/from said support bar.

12. An apparatus according to claim 9, further
2 comprising
3 a holder with a first through hole and adapted

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4 to support said intermediate ink dam to be movable in a
5 direction to become close to and away from said ink
6 fountain roller,
7 a spring accepting portion fixed to said press
8 member,
9 a screw with a second through hole in which
10 said press member supported in the first through hole to
11 be movable in the moving direction of said intermediate
12 ink dam extends, said screw being threadably engageable
13 with the other end of the first through hole, and
14 a spring mounted between said spring accepting
15 portion and said screw and adapted to bias a distal end
16 of said press member projecting from one end of the
17 first through hole so as to press said intermediate ink
18 dam,
19 said spring having a biasing force adjusted by
20 pivot motion of said screw.

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